

Title (en)
RADIOFREQUENCY TRANSCEIVER DEVICE USING AN ANTENNA MADE UP OF A TEXTILE WIRE AND A CONDUCTIVE RIBBON AND ASSOCIATED ELECTRONIC TAG

Title (de)
FUNKFREQUENZ-SENDE-/EMPFANGSVORRICHTUNG MIT EINER ANTENNE, DIE AUS EINEM TEXTILFADEN UND EINEM LEITFÄHIGEN BAND BESTEHT, UND ENTSPRECHENDES ELEKTRONISCHES ETIKETT

Title (fr)
DISPOSITIF D'ÉMISSION-RÉCEPTION RADIOFRÉQUENCE UTILISANT UNE ANTENNE COMPOSÉE D'UN FIL TEXTIL ET D'UN RUBAN CONDUCTEUR ET ÉTIQUETTE ÉLECTRONIQUE ASSOCIÉE

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Application
EP 22155789 A 20220209

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Abstract (en)
[origin: WO2022171951A1] The invention relates to a radiofrequency transceiver device (1) comprising an electronic circuit (2) comprising a chip and a first antenna electrically connected to the chip, a textile-core thread (4) formed of a non-conductive material, and a second antenna formed of a textile element (3) in an electrically conducting material and disposed in non-contiguous turns around and along the textile-core thread (4). The electronic circuit (2) is disposed relative to the second antenna so as to allow the electromagnetic coupling of the first and second antenna. The invention also relates to a label incorporating the radiofrequency transceiver device (1) and to its method of manufacture.

Abstract (fr)
L'invention porte sur un dispositif d'émission-réception radiofréquence (D) comprenant une puce (1) comportant un circuit d'émission-réception (4) et deux plots de connexion (4a, 4b) électriquement reliés au circuit d'émission-réception (4) et une d'antenne dipôle (7a, 7b) couplée au circuit d'émission-réception (4) de la puce (1). Selon l'invention l'antenne dipôle (7a, 7b) comprend un fil textile et au moins un ruban formé d'un matériau électriquement conducteur, le ruban étant enroulé en spires autour du fil textile pour le recouvrir au moins en partie.

IPC 8 full level
H01Q 1/08 (2006.01); **D02G 3/36** (2006.01); **D02G 3/44** (2006.01); **G06K 19/02** (2006.01); **G06K 19/077** (2006.01); **H01Q 1/22** (2006.01); **H01Q 1/27** (2006.01); **H01Q 9/16** (2006.01)

CPC (source: CN EP US)
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